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L6: Entry 34 of 37

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Oct 8, 1992

DERWENT-ACC-NO: 1992-385398

DERWENT-WEEK: 199247

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TITLE: Anti-periodontal disease agents inhibiting proliferation of Bacteroides gingivitis - obtd. by soaking soybean(s) in water to extract iso:flavone glycoside (s) including genistein glycoside

PATENT-ASSIGNEE:

ASSIGNEE	CODE
KIKKOMAN CORP	KIKK

PRIORITY-DATA: 1991JP-0070389 (March 12, 1991) **PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>JP 04283518 A</u>	October 8, 1992		003	A61K038/78

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 04283518A	March 12, 1991	1991JP-0070389	

INT-CL (IPC): A61K 38/78ABSTRACTED-PUB-NO: JP 04283518A **BASIC-ABSTRACT:**

Anti-periodontal disease agents contain genistein.

Genistein is prep'd. by soaking peeled soybeans in water of pH 8-11 at 50-60 deg.C to extract isoflavan glycosides including genistein glucoside. This extract is hydrolysed with enzyme or acid and the hydrolysate is filtered through ultrafiltration membrane to give a fraction contg. isoflavones. Crude genistein may be purified by adsorption-elution process by use of proper resins or by extn. with ether. Genistein obtained can be mixed in tooth paste, gargle, chewing gum, or troche.

USE/ADVANTAGE - The agents inhibit the proliferation of *B. gingivalis* which is adherent bacteria in the bronchial and intestinal tracts and causes varied periodontal disorders including periodontosis. Genistein is the aglucon of genistein and other isoflavan glucosides which can be easily obtd. and is of low toxicity. The glucosides are readily gained from plants such as soybeans, e.g. by means of extn..

In an example, growth of *B. gingivalis* was completely inhibited with 5-100 ppm of genistein after 48-hrs. incubation at 37 deg.C, whereas growth was obtd. with 5-100 ppm daidzein

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: ANTI PERIODONTAL DISEASE AGENT INHIBIT PROLIFERATION BACTEROIDES
GINGIVAL OBTAIN SOAK SOY WATER EXTRACT ISO FLAVONE GLYCOSIDE GLYCOSIDE

DERWENT-CLASS: B05

CPI-CODES: B06-A01; B12-A01; B12-L03;

CHEMICAL-CODES:

Chemical Indexing M2 *01*

Fragmentation Code

D013 D023 D120 G013 G100 H4 H403 H443 H8 J5
J521 M113 M280 M320 M412 M511 M520 M531 M540 M781
M903 M904 P220 P912 P913 Q261

Specfic Compounds

11605U

Registry Numbers

92407

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1992-171041

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